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- Shimao, Masanobu,
Shin-Etsu Chemical Co., Ltd.
Takefu-shi, Fukui-ken (JP)
- Hamada, Ryuji, c/o Shin-Etsu Chemical Co., Ltd.
Takefu-shi, Fukui-ken (JP)
- Minowa, Takehisa,
c/o Shin-Etsu Chemical Co., Ltd.
Takefu-shi, Fukui-ken (JP)

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(71) Applicant: SHIN-ETSU CHEMICAL CO., LTD.
Chiyoda-ku Tokyo (JP)

(74) Representative: Stoner, Gerard Patrick et al
MEWBURN ELLIS
York House
23 Kingsway
London WC2B 6HP (GB)

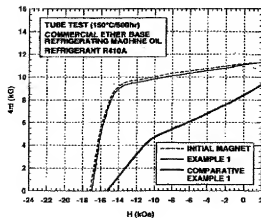
(72) Inventors:
• Tamura, Kazuo, c/o Shin-Etsu Chemical Co., Ltd.
Takefu-shi, Fukui-ken (JP)

(54) Preparation of rare earth permanent magnets

(57) An R-Fe-B permanent magnet wherein R is Nd or a combination of Nd with a rare earth element is prepared by casting an R-Fe-B alloy, crushing the alloy in an oxygen-free atmosphere of argon, nitrogen or vacuum, effecting comminution, compaction, sintering, aging, and cutting and/or polishing the magnet to give a

finished surface. The magnet is then heat treated in an argon, nitrogen or low-pressure vacuum atmosphere having a limited oxygen partial pressure, obtaining a highly oil resistant sintered permanent magnet having corrosion resistance and hydrogen barrier property even in a high pressure hot environment of refrigerant and/or lubricant as encountered in compressors.

FIG.1





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EUROPEAN SEARCH REPORT

Application Number
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Place of search THE HAGUE		Date of completion of the search 26 November 2002	Examiner Decanniere, L
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	

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SPOTFORM P.445

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